

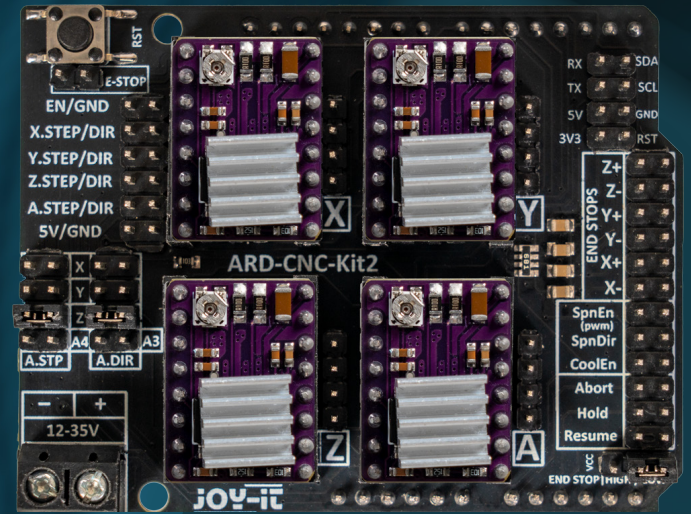
ARD-CNC-KIT2

4 AXIS CNC CONTROLLER BOARD

JOY-IT

SPECIAL FEATURES

- ✓ 4 Axis
- ✓ GRBL 0.9 compatible
- ✓ PWM spindle controll
- ✓ Soft limits
- ✓ Including 4x DRV8825 motor driver
- ✓ 6 endstop connections
- ✓ Reset button



The ARD-CNC-Kit2 is a specially developed expansion board designed to enable the control of CNC machines via an Arduino board. This kit is characterized by its compatibility with GRBL v0.9, a popular open source software developed for CNC applications. By supporting GRBL v0.9, the ARD-CNC-Kit2 can utilize advanced features such as PWM (pulse width modulation) spindle speed control and the implementation of soft limits, which are used to keep the machine within safe operating limits. These features are particularly important for users who require precise and safe machine control.

The kit enables the control of up to four stepper motors simultaneously, with each motor controlled by a DRV8825 motor driver. These drivers are known for their efficiency and reliability and come with heat sinks that ensure optimal heat dissipation. This minimizes the risk of overheating and resulting damage or loss of performance.

In addition, the ARD-CNC-Kit2 offers extended connection options for machine control. It has dedicated ports for limit switches on each axis, which enables additional safety and accuracy during machining. In addition, there are ports for spindle control and cooling mist, which can be used for special CNC machining operations such as milling metals or other materials that require cooling during the process.

The design of the ARD-CNC-Kit2 is such that it fits directly onto an Arduino Uno or a compatible designed board. This integration greatly simplifies setup and installation, making it ideal for hobbyists, makers and educational institutions looking to experiment with CNC technology or expand their existing capabilities.

Included with the kit are the CNC shield board and four DRV8825 motor drivers with heat sinks, making it a ready-to-use solution. The kit provides a comprehensive, cost-effective solution that offers reliable and easy-to-implement control for a wide range of CNC projects.

MAIN FEATURES

Input Voltage	12 - 35 V
Max. current per phase	1.5 A (without heatsink); 2.5 A (with additional cooling)
Microstep resolution	Full, 1/2, 1/4, 1/8, 1/16, 1/32
Endstops	6 endstop Connections - active high or low (jumper selection)
Further connections	Emergency stop, Spindle enable (pwm), spindle direction, coolant enable, abort, hold, resume, I2C, UART

FURTHER SPECIFICATION

Compatible with	Arduino Uno and Arduino Uno compatible boards
CNC shield dimensions	42 x 68 x 20 mm
Motor driver dimensions	15 x 20 x 16 mm

FURTHER INFORMATION

Weight	45 g
Article number	ARD-CNC-Kit2
Scope of delivery	CNC shield, 4x DRV8825 motor driver, 4x heat sink for motor driver, 14x Jumper
EAN	4250236828329
Customs tariff number	8542319000

